

1946-47

Port

File No.

28 46

Serial Nos.

6,7,11, 19

Later References.

PRESERVED

GENERAL AND REVENUE SECRETARIAT

Serial Nos. Four

Part B for

April 1947

SUBJECT
 Deputation of Messrs G. D. Ramaswamy
 and Ganaspathy to undergo training
 as Drilling Engineer and Driller at the
 Central Drilling School at Dhawaneri (2)
 Grant of an advance to Mr. Ganaspathy
 to cover his travelling expenses for his
 forward journey to Dhawaneri, equipment
 and halting allowance

p.w. 3526-7

4.12.47

p.w. 6946-8

0.4.47

to

The C.O.

The Comptroller

The District P.W.O.

then of set

Sanctions (1) the proposal to the _____
 and (2) grant of advance of T.R. admi-
 ssible under the rules in addition of
 an advance of one month's pay of Rs. 150/-
 which ever less to Mr. Mr. Ganaspathy.

Serial
No.

Letter no. R. 7. 436-46/Pol. Dated
25.9.1946 from the Secretaries
to the ^{Honble} Resident in Mysore.

Subject: Central Drilling School
of the Central Ground Water
Section

Requests that necessary action may
be taken immediately by this Govt.
to nominate any Candidate
for training in the Central Drilling
School. This relates to mechanical
drilling of water wells. The Course
will Commence early in November
1946. The names of Candidates
to be deputed by this Govt. will have
to be communicated direct to the
Chairman, Central Ground Water
Section, Dept. of Agriculture, New
Delhi, with the particulars required.
These papers may perhaps be
referred unofficially to the C.E. 2.
for opinion and remarks and
return immediately for obtaining
orders of Government.

b.
3/10.

4/10/46

7/10.

2.

b.E.I.

with Compliments

W. 9. 46

Serial
No.

Memorandum No. 2604 is dated 18.10.1946 from the Chief Engineer for Irrigation suggesting the names of official Candidates for being trained in the Central Drilling School.

3. Subd with reference to paras 1 and 2 of the notes.

4. The C.E. has recommended that Mr. C. S. Ramaswami, B.E. (Mech) attached to the Irrigation Bureau may be sent for Drilling Engineers Course and that Mr. M. Ramapathy of the Well boring section for the Drillers Course.

5. No fee is to be paid to the Central Govt for the training of these Candidates, but their living and travelling expenses will have to be met by Govt, as they are Govt employees. The course will extend over a period of ~~two~~ 9 months of which three months will be preliminary and six months practical.

6. The second course commencing in November 1946 and it is expected that there will be subsequent courses every quarter till sufficient number of drillers are trained. It may not be possible for the Candidates from Mysore to attend the second course commencing early in November. ~~But~~ The names may perhaps be intimated to the Chairman, Central Groundwater Section

No. 310

7. The proposal to depute Messrs: G. D. Ramaswami and H. Ramapathi for ~~required sanction~~ training in the Central Drilling School requires sanction of Govt. with financial concurrence.

Secy)

The ~~Chair~~ deptsⁿ may be said to. The
Chairman intimated direct. Unal permissible

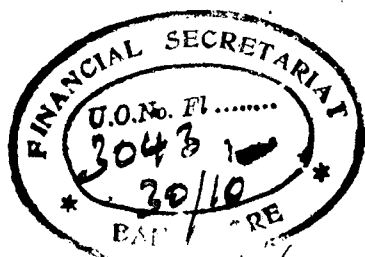
T.A.s + ~~base~~ halting allowances will be paid. 11. ~~has~~

Kw 29 ¹⁰/₄₆ ¹⁰/₂₉ 10. B 31.10. Kw 24 ¹¹/₄₆ ¹¹/₂₄ 12. ~~has~~ 46 ¹¹/₂₄ 11 Letu/48

NOV 21 1943

5 NOV 1946

93002



NOTE—Contn. Sheet

Min ~~to~~ Home

Dewan

Mr.
F. L. L. 4

Serial
No.

13. Subd. with a draft RO and letter.

14. Secy)

20/11

Issue

21/11/46

22/11/46.

22/11/46

Sir Sir has agreed - Draft of form letter

(Sir Com. 2288)

26/11

Done.
26/11

Issued

27/11

Issued - (1) G.O. no PW 3526-7/E - 28-46-6 dated 4-12-46

Sanctioning the appointment of Mr. S. S. Ramalingam
and M. Ganapathy - attached to Sanitary Bureau.

(2) Letter no PW 3524-5/E - 28-46-7 dated 4-12-46.

To Chairman, Central Ground Water Section, New Delhi
& CE for information -Request CE to furnish the particulars required
direct to the Chairman.Letter no S.W. 10-43/46 dated 18-1-1947 from
the Chairman, Central Ground Water Section, New Delhi,
forwarding copy of letter addressed to the CE for information
requesting the CE to furnish the necessary particulars
to be before 20/2/1947.Letter no RF 436-46/POR dated 28-1-1947
from the Secy to the ^{Joint} Resident in reply in the matter.16. The Residency have forwarded a copy of
the prospectus and syllabus for the Central
Drillings School and requests that the require
particulars in regard to the ~~drillings~~ for

Central Drilling School of the Central Gm.

Water Section

37861 3861 392

Public Works
Secretariat

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of 194

[App. F. III-2]

Serial
No.

deputations from Mysore may be furnished direct to the Chairman, Central Ground Water Section, New Delhi, before 10.2.1947.

17. The deputation of M/s G.D. Ramaswamy and N. Ganapathy of the Sanitary Division has already been sanctioned and the C.F. has also been requested to furnish the particulars direct to the Chairman.

18. Subd with a draft letter to C.F. for approval or other orders

B
31/1/47.

19 Secy) 31/1/47

Inde
31/1/47

20 Issue

. Pm.
31/2

18
31/1

Letter no. 5190-92/E dated 1-2-1947, since received from the Chief Engineer for Uniform forwarding copy of letter dated 29.1.47 addressed to the Chairman, Central Ground Water Section, New Delhi.

21. As it is stated that the particulars referred to in para 16 supra have been furnished direct to the Chairman, Central Ground Water Section, New Delhi, the letter to C.F. may perhaps not issue.

22

3. 42
8/2/47
6.2.47

B
8/2/47

Inde
8/2/47

Central Drilling School of the Central Ground

Water Section

4084

4648

4915

File No.

Jan of 1947

Public Works
Secretariat

Serial
No.

Letter No. RF 436 - 46/101 dated 8/2/47
from the Secy to the Honble the Resident in K. making
that the last date for the receipt of
applications for the third course has been
extended up to 17/2/1947.

24. Subd with a draft.

12/2
13/2/47

25. Issue
13/3/47

Issued - No. PW 5205/Est 24-46-6 dated 14.2.47.

20. The CE for Enigma

Intimates that the last date for
receiving applications is extended up to 17.2.47

Letter No. 6218/E dated 5.3.47 stating
that intimation has been received that the
exact date of commencement of
the course would be communicated
in due course.

26. Subd for perusal.

11/3/47.
11-30/47

HPS
12.3.47

27. Answered from the communication from CE

has been received

13/3/47
HPS

Letter No. 6438/12 dated 17/2/1947
from the Chief Engineer for Enigma
intimating that Mr. M. Ganapathy has
been selected by the Central Drilling School.

28. Subd with reference to para 27 supra

29. Mr. M. Ganapathy has been asked to be

Central Training School of the Central Govt

General and Revenue
Secretariat

Wats Sec. Sec. Sec.

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Serial
No.

in readiness to join the school as stated
note. The C.E. recommends that Mr. N.
Ganapathy may be granted an advance
of Rs 50/- for the forward journey to
Dhanauri (7 miles from Roorkee U.P.) equipment
and halting expenses, the amount being
adjusted subsequently from the T.A. bills
of the official.

30. The proposal requires financial
concurrence.

B
20/3/47 HPS
20.3.47
20/3/47

The advance may be sanctioned as
at A. The amount of Rs 50.00 may be more than the
T.A. admissible under the rules. He may be
paid the advance ~~admission~~ of T.A. admissible
under the rules + the months pay in advance
as
Rs 150 or which ever is less - for equipment.

Minister for Ag. and P.W.
and
Dewan
through Fin. Secy

Bsu
24.3.47

HPS
24.3.47

24(31W)

26/3/47

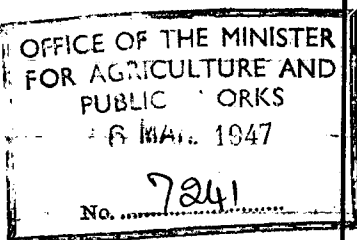
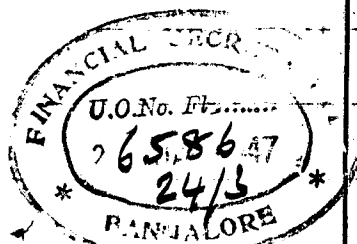
25.3.47

24/4/47

HPS
25.3.47

Bsu
28.3.47

by 3.4.47 HPS
3.4.47



7106

of 194 .

General and Revenue
Secretariat

Serial
No.

3
3/4/47.

Issued
Per
5.4.41

Fl. comm No. 4268.

F/s. has agreed. Draft & fair
subtd.

$$\frac{2}{12/4}$$

Free

12/4

NO. P.M. 6946-8/EST-28-46-19 date 10.4.47

To The C. & D.

"Compote."

11 Andels pwr.

Sanctions are advance admissible as per rules to Mr N. Gangadhar for his expenses for the journey to Dhanauri.

No.RF.436-46/2.pol. IMMEDIATE.

(16)
217

From The Secretary to the Hon'ble the Resident in Mysore.
To The Chief Secretary to the Government of His Highness
the Maharaja of Mysore, Bangalore.

Dated Bangalore, the 25th September 1946.

1094

2/10/46

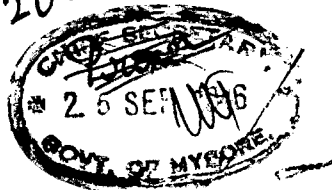
CENTRAL DRILLING SCHOOL OF THE
CENTRAL GROUND WATER SECTION.

Sir,

I am directed to forward a copy of a letter from the Government of India, Department of Agriculture to Provincial Governments, No.F. 8-26/46-IRN, dated the 27th August 1946. I am to invite particular attention of the Government of Mysore to paragraph 6 of the letter and to request that necessary action may kindly be taken immediately if they wish to nominate any candidate for training in the Central Drilling School.

PW Secy
w/c
BJ

20.



*with 1 S.C.

P.W
K/2896
B

I have the honour to be,
Sir,
Your most obedient servant,

Phadmanandan
for SECRETARY TO THE RESIDENT.

No.F.8-26/46-IRN
GOVERNMENT OF INDIA
Department of Agriculture,
New Delhi, the 27th August 1946.

From
R.A.Gopalaswami, Esquire., O.B.E. I.C.S.
Joint Secretary to the Government of India

To
All Provincial Governments.

Subject:- Central Drilling School of the Central Ground Water Section.

Sir,

I am directed to state that a Central Drilling School (C.D.S.) of the Central Groundwater Section has been opened at Dhanauri (7 miles from Roorkee, U.P.) from 1.8.46 to impart technical training relating to the mechanical drilling of water-wells generally.

2. The first batch of trainees have already been admitted and their training is in progress now. This will comprise a preliminary training for a period of three months at the School and will include courses in the erection, maintenance and operation of portable power-driven percussion rigs in the first instance and later of rotary rigs. This course will be followed by a period of actual drilling of tube-wells in the field till a trainee attains the requisite standard of efficiency required in the maintenance and operation of boring rigs and construction of water-wells etc. The period of training in the field is likely to be of six months' duration. After satisfactory training a candidate would be awarded a certificate of proficiency from the School.

3. The general idea is to train the prospective drillers in the use of mechanical boring equipment in the minimum time, both for the Central Ground Water Section (C.G.W.S.) of the Government of India and for those provinces and states who wish to acquire their own mechanical rigs or who propose to initiate tube-well Schemes in their areas.

4. Only a limited number of seats are available for training for each course. Normally 5 Drilling Engineers and 25 Drillers will be trained in each batch. For training as Drilling Engineers the candidates should possess a degree in Engineering and should preferably have some practical experience of overhauling Diesel engines, petrol engines tractors and other similar machinery. For training as Drillers candidates should possess good general education up to High School Standard, good general intelligence and should preferably have some previous mechanical training in the overhauling of Diesel engines, petrol engines, tractors and other similar machinery. All candidates should possess good physical fitness and be capable of hard manual labour which will be required of them both during the course and in their subsequent career. Any experience on drilling wells with manual rigs or mechanical boring rigs would be an additional qualification.

5. No fee will be charged from the candidates for this training but they will have to bear their living and travelling expenses.

6. The second course at the School will commence early in November 1946. The Provinces and States desirous of getting their candidates trained during that course should communicate direct with the Chairman Central Ground Water Section, Department of Agriculture, New Delhi, intimating the following particulars about the candidates:-

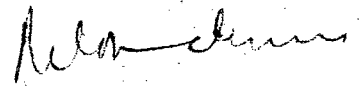
- (a) Date of birth.
- (b) Details of general education and employment since leaving school.
- (c) Details of any Engineering qualifications, mechanical experience etc.
- (d) A certificate of physical fitness from a qualified doctor.
- (e) Any other information which the Provincial State Government may consider relevant for the purpose.

These particulars should reach the Chairman, Central Ground Water Section on or before the 20th September 1946. A copy of the Prospectus and Syllabus for the Central Drilling School are enclosed herewith for general information.

7. The number of seats that can be allotted to Central Province/ State will be intimate by the Chairman C.G.W. Section as early as possible after 1st October 1946.

8. It is expected that there will be subsequent courses at the C.D.S. every quarter till sufficient number of drillers have been trained to meet the demand of trained drillers in the country.

I have the honour to be,
Sir,
Your most obedient servant,



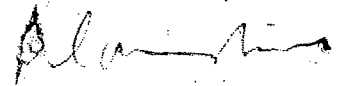
(R. A. GOPALASWAMI)

Joint Secretary to the Government of India.

Copy with 100 spare copies forwarded to the Political Department for information and necessary action.

Copy also to the Chairman, Central Ground Water Section

BY ORDER,



Joint Secretary to the Government of India.

GOVERNMENT OF INDIA.
 AGRICULTURE DEPARTMENT.
 CENTRAL GROUND WATER SECTION.
 CENTRAL DRILLING SCHOOL.
Dhanauri (Rooke), U.P.

Prospectus.

1. *Accommodation*.—Barrack space will be provided together with charpoy, kit-box, table, and chair for each student. A deposit of Rs. 15/- must be paid to the Principal of the School as soon as the pupil takes over the equipment. On return of the equipment on completion of the course the deposit will be refunded. Electric light will be provided free. Table fans, when required, must be hired by trainees themselves.

2. *Board*.—A contractor provided with cooking facilities will be on the site with separate kitchens for Muslims and Hindus. In addition, there will be a Canteen where light meals, tea, cigarettes, etc., will normally be available. Charges for board, which must be arranged between pupils and the contractor, are not expected to exceed Rs. 35/- p.m.

Apart from general supervision in regard to cleanliness, etc., no part will be taken by the School in the actual provision of food, but *bond fide* complaints will normally be investigated by the Principal.

3. *Hours of Work*.—Working hours will normally be as follows :

Morning period	07-00 to 11-00
Mid-day meal and rest	11-00 to 12-30
Afternoon period	12-30 to 16-30

In special cases, such as "fishing" tool practice or completion of wells, etc., pupils may be required to work overtime.

Saturdays	07-00 to 12-00
Chiefly revision and maintenance of machines.	

Sunday Holiday.

4. *Official Holidays*.—Gazetted holidays as approved by Government of India will be notified. Where the holidays are communal, pupils of communities not affected may be required to work as usual.

5. *Leave*.—Leave will not ordinarily be granted to pupils during the course. If leave for periods exceeding 10 days has to be taken for "urgent private affairs" pupils will be required to submit their names for a fresh course. Such pupils will be ineligible to continue on the current course. In such cases any stipend already paid will be deducted from any future stipend payable to such students.

6. *Vacancies*.—Admissions, stipends and other benefits will be allotted by the Chairman, Central Ground Water Section. Admission will normally be limited to 30 Driller and 4 Mechanical Engineer vacancies for each course.

7. Discipline.—Any pupil whose conduct, after having been given due warning, is considered by the Principal to be prejudicial to the maintenance of discipline in the School may be required to leave the School subject to confirmation of the notice by the Chairman, Central Ground Water Section.

8. Progress.—Any pupil, whose progress during the course is deemed by the Principal to be inadequate to enable him to pass the proficiency tests, may be given notice of suspension of training, subject to confirmation by the Chairman, Central Ground Water Section.

9a. Medical Attention.—Every effort will be made to provide medical attention in cases of an urgent nature. Such treatment will however not be free and no guarantee of free medical attendance or free admission to any hospital can be given. The Principal will render the best assistance possible in the circumstances.

10. Clothing.—Every student must bring with him sufficient clothing for the period of the course. Items shown in Appendix 'A' are compulsory. It is very important that *mosquito nets* be brought.

11. Families.—Students will on no account be permitted to bring their families to the School, nor can any accommodation be arranged for them in the vicinity.

12. Syllabus.—A detailed syllabus is being issued showing the subjects and operations to be covered in the normal three months' course.

13. Transport.—No transport can be provided for students' private visits to Roorkee or elsewhere. Normally a vehicle will go to Roorkee once every day and on Saturday evenings. When accommodation is available students may take it in turn to use this vehicle. A bus service runs past the School between Dhanaury—Roorkee and also to Hardwar.

APPENDIX 'A'.

Minimum list of clothing and accessories to be brought by students attending the School:—

- 1 pair good boots, either black or brown, suitable for hard usage.
- 2 pairs heavy socks.
- 2 pairs Overalls or Dungarees—must be in one piece with no coat tails, loose belt, etc., as these are liable to be caught in machinery.
- 1 Mosquito net in good condition.
- 2 pairs *khaki* shorts.
- 2 *khaki* shirts.
- 1 waterproof or waterproof cape suitable for work in rainy weather.
- 2 bed-sheets
- 1 pillow
- 2 blankets or substitute

} to be contained in a valise for camping, etc.

If possible—two pairs heavy leather work gloves—horsehide suggested.

(Sd.) F. H. C. ORAM, Captain,
Principal.

(Sd.) W. L. STAMPE,
Chairman.

Government of India
Agriculture Department.
CENTRAL GROUND WATER SECTION,
CENTRAL DRILLING SCHOOL
DHANAURI (ROORKEE) U.P.

Dated August 28, 1946.

SYLLABUS OF TRAINING IN MECHANICAL DRILLING.

N.B. - The syllabus is subject to such modification during the course as experience may necessitate.

1. OBJECT - The School is intended to impart technical knowledge relating to the mechanical drilling of water-wells generally and will train a certain number of Engineer Drillers, Drillers and Assistant Drillers. The number of vacancies will be announced by advertisement at the beginning of each course.
2. ENGINEER DRILLERS - The candidates for training as Engineer Drillers should possess the following qualifications :-
 - (a) A degree in Engineering (Electrical & Mechanical preferred) from a recognised University or an equivalent diploma from any recognised Engineering Institution.
 - (b) They should be mechanically minded with practical experience for at least two years in some large workshop or engineering works employing heavy machinery.
 - (c) Physical fitness and good personality - candidates will be required to exert hard manual labour.
 - (d) They will be required to attend at the Central Drilling School, Dhanauri for interview and short practical test before selection.
 - (e) Before selected candidates can be admitted to the school, they will be required to produce a medical certificate of sound physique and good health from a recognised medical practitioner.

Engineer drillers will receive a 3 months' course of preliminary instruction, both practical and theoretical at the school followed by 6 months' field experience.

If considered necessary by the Principal and confirmed by the Chairman, C.G.W.S. any particular Engineer Driller trainee may be given an extension of at the most 3 months further field training & should he not have attained the required standard at the end of his first 9 months' course.

After the satisfactory conclusion of this field training students who have attained the requisite standard of proficiency in the theory, maintenance and operation of the drills and construction of water-wells, will be awarded a certificate of proficiency from the School.

Stipend : For Engineer Driller trainees who are nominees of the C.G.W.S., a stipend of Rs.150/- per mensem will be awarded for the whole period of training (including field training)* which in no case will exceed 12 months in all.

No guarantee of any employment after completion of the course can be given but it is hoped considerable scope will be available for trained Engineer Drillers.

3. DRILLERS AND ASSISTANT DRILLERS - The candidates should possess the following qualifications :-

- (a) Good general intelligence.
- (b) Good general education up to High School Standard.
- (c) Mechanically minded preferably with some previous training in a reasonably heavy industry for about a year. Preference will be given to candidates possessing diploma in engineering.
- (d) Physical fitness - candidates will be required to exert hard manual labour.

Suitable candidates will be required to appear for an interview before selection for a test course at the School.

The candidates selected at the interview will be required to undergo a two weeks 'test' course at the Central Drilling School, Jhanakuri. As a result of this test only those students who are found suitable for undertaking training as Drillers or Assistant Drillers will be selected for training, either on rotary or percussion drills in the school. The question of fitness for training and selection for either percussion or rotary rigs after the two weeks' test will be decided by the Principal, Central Drilling School, subject to confirmation by the Chairman, Central Ground Water Section.

They will, after selection in the test, be given three months' course of instruction at the School which will comprise elementary training in maintenance and operation of portable drilling rigs. At the end of the three months' training at the School it will be decided by the Principal, subject to approval by the Chairman, C.G.W.S., as to which candidates are suitable for taking the field training as Drillers at Government expense.

Those not found suitable for training as Drillers but only as Assistant Drillers will be given the option of being trained as Assistant Drillers.

Those selected trainees will then be required to undertake field training for a further period of six months as Drillers or Assistant Drillers.

After the satisfactory conclusion of this field training, students who have attained the requisite standard of efficiency in the maintenance and operation of drills, and construction of water wells, will be awarded a certificate of proficiency from the School.

Those who in the opinion of the Chairman do not attain the requisite standard of proficiency in the first six months of field training will be required to undergo training for a further maximum period of 6 months. If after a total of 15 months training any candidate is unable to attain the required standard of proficiency he will not be awarded a certificate of proficiency but only a certificate stating what actual experience he has had as well as his conduct during the course.

Stipends : For Driller and Assistant Driller trainees who are nominees of the C.G.E.S. stipends will be paid as follows :-

- (a) Rs.50/- per mensem during 'test' period of 2 weeks and during 3 months' period of elementary training at the School.
- (b) Rs.75/- per mensem for those trainees who are selected for training in the field as drillers.
- (c) Rs.50/- per mensem to those trainees who though not up to the standard required for Driller trainees are suitable for and willing to undergo further training as Assistant Drillers.

No guarantee of any employment after completion of the course can be given but there is a considerable field for employment of trained men, on tubewell operations, under the Central Ground Water Section, Provinces and States and private individuals, and it is hoped that most of the candidates trained at the School will be able to secure suitable employment.

4. Fees : No fee will be charged from the candidates for this training who are nominees of the C.G.E.S., Provinces or States. Nominees of Commercial firms will however be charged a suitable training fee.

"500-5.9.46-D"

4

GOVERNMENT OF INDIA.
AGRICULTURE DEPARTMENT.
CENTRAL GROUND WATER SECTION.

CENTRAL DRILLING SCHOOL.

Dhanauri (Roorkee), U. P.

No. IC-2269.

Dated, June 21st, 1946.

Syllabus for Training in Mechanical Drilling.

N.B.—The syllabus is subject to such modification during the course as experience may necessitate.

1. *Object.*—The school is intended to impart technical knowledge relating to the mechanical drilling of water-wells generally. Instruction will be given in the operation of mechanical boring rigs using in the first instance Ruston-Bucyrus, 22-W and 33-W machines, hauled by mechanical vehicles.

At a later stage, instruction in the operation of Rotary rigs [Failing, 55 (special) type] will be given.

Towards the end of the course, which will normally be of 3 months' duration, instruction will, if possible, be given to candidates of proved ability, in the drilling of tubewells for irrigation in the field.

In drafting the syllabus it has been presumed that candidates selected for the course will possess the following qualifications, as stated in the notification already published :—

- (a) Good general intelligence.
- (b) Mechanically minded—preferably with some previous mechanical training.
- (c) Good general education up to high school standard.
- (d) Physical fitness—candidates will be required to exert hard manual labour.

5. *Syllabus.*—Instruction at the school will comprise the following :—

I.

Preliminary check and listing of component parts prior to assembly. Erection, rigging up and general assembly of portable percussion rigs. Detection of possible faults. Each student will take charge of one complete cycle of erecting and dismantling machines.

II.

Complete maintenance of machines including proper care in the use of all grades of fuel and lubricants. Adjustments to brakes, friction clutches, disc clutches and complete maintenance of power plant (Diesel engines) including ordering of spares. Location of faults and their correction. Each student will be called upon to do the actual test and adjustment himself, and not merely to write on paper what should be done.

III.

Selection and preparation of drilling sites, preparation of approaches, spoil pits and actual movement of rigs to sites. Power capacities of different types of hauling vehicles.

IV.

Erection and setting up of drills at a given site and complete preparation for drilling, including the selection of proper tools, material for crabs, wire lines, ropes, etc. Each student will be required to take charge of the operation at any stage or throughout the erection period according to his ability to do so.

V.

Instruction in the proper selection and care of all types of casings, pipes and strainers generally used including correct description for these in terms of both British and American standard specifications. Measurement and logging of casings to be used in a hole. Each student will be required to prepare a complete string of casing for a hole of specified depth and will collect all necessary tools for this purpose.

VI.

Operation of bull reels and spudder with instruction in adjustments of speed and stroke to suit different formations encountered.

VII.

- (a) Stringing up a complete set of drilling tools, and instruction in their uses. Students will be required to select a set of tools from the tool dump.
- (b) Measurement of tools, bits, bailers, casings, wire ropes, etc.

VIII.

Operation of sand reel and uses of different types of bailers and sand pumps.

IX.

Operation of casing reel (on 22-W) and substitution for casing reel (on 33-W), stringing of blocks, and use of elevators, spiders and slins, lifting nipples, clamps, etc.

X.

Actual drilling operation; each student to operate the machines himself for drilling different sizes of holes.

XI.

Functions of fishing tools, and their use. Actual fishing operations to be carried out in a test hole by means of casing with a blind end. Each student will fish out all types of lost tools himself. Splicing and care of ropes and soft ropes.

XII.

- (a) Measurement of depth of hole on both sand and drilling cables.
- (b) Elementary recognition of drilled samples and accurate logging of the depth at which they are encountered, pointing out

possibility of errors due to various causes.

- (c) Recording of all daily static water levels and recovery. Simple tests for quality of water. Methods of testing for water by bailing and rough estimates of yield.
- (d) Recognition of caving conditions.

XIII.

Selection and making up of strings of strainers and pipes and their correct positioning in wells. Each student will instal one length of strainer at a given depth.

XIV.

Instructors will supervise and instruct, where necessary, their individual crews in the actual running of the pipes and strainers (or slotted tubes) into the hole already drilled by the students. Each student will in turn take direct control of the drilling machine.

XV.

Methods of pulling, jacking and jarring of casings. Arrangement of cribs, and jacks, spiders and slips. Methods of freeing stuck casing. Setting plugs of cement, lead or other type at the junction of strainers, or slotted tubes, with housing pipe for borehole wells.

I.

Methods of gravel shrouding for Roscoe Moss (and other) types of wells. Extraction of outer strings of casings. Selection of correct size of gravel and computation of quantity required for a given boring. Sources of correct grade of gravel.

XVII.

Air lift pumping and testing of wells for yield. Use of air compressors and rough calculations as to size required to produce a given yield from a known well with a specified draw-down. Special methods of bailing, surging, back blowing and development of gravel shrouded tubewells. Selected students will be given wells to develop to the best of their ability, in a known area. Recording of pumping data.

XVIII.

Rough estimation of time required to drill a well in known areas with different types of formations. Changes in technique involved.

XIX.

Method of cementing, sealing, and grouting where necessary.

XX.

Detailed explanation with practical demonstration of the Roscoe Moss technique of tubewell construction.

XXI.

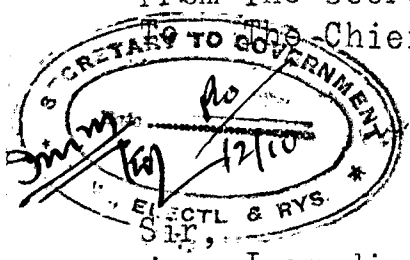
Preparation of an estimate of equipment required to put down a well in a known area including drilling, fishing tools, miscellaneous stores, casings, pipes, strainers, slotted tubes, gravel shrouding and time required for completion. Estimate of actual cost of construction.

1694

URGENT. Rm 2973
18/10/46

No.RF.436-46/Pol.

From The Secretary to the Hon'ble the Resident in Mysore.
The Chief Secretary to the Government of His Highness
the Maharaja of Mysore.



Dated Bangalore, the 10th October 1946
CENTRAL DRILLING SCHOOL OF THE CENTRAL
GROUND WATER SECTION.

I am directed to refer to my letter No.RF.436-46/Pol., dated
the 25th September 1946, and to inform you that the Government of
India, Department of Agriculture, have agreed to extend the last
date for receiving names and particulars of candidates from the
Indian States to the 20th October 1946.

P. W. SECRETARIAT.
1889
Date 15.10.46



I have the honour to be,
Sir,
Your most obedient servant,

Prasanna Kumar
for SECRETARY TO THE RESIDENT.

Immediate

Forwarded, with Compliments, to
the Chief Engineer for Drivigation
for favour of furnishing the parti-
culars required in No. 1694/P.W.
dated 9.10.1946, immediately.

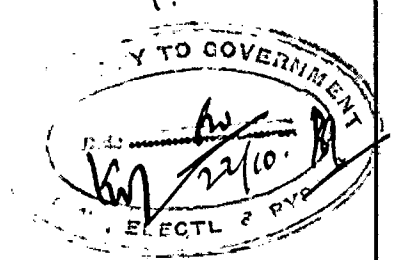
G. Maincham
Secretary to Govt. 15/10/46
P.W. Department
15/10.

15/10/46

Mr. G. D. Ramaswamy, B.E., (Mech) First in I Class
now attached to Sanitary Bureau is suggested for -
Drilling Engineer's training and Mr. M. Ganapathy of
Well Boring Section may be sent for Driller's Course.

Secretary to Government,
Public Works Department,
with compliments.

16
17/10/46



SUBJECT

Central Drilling School of the Central
Ground Water Section -

Diary No. of letter replied to

Section 9-A

File No. 28-46

Serial No. 6

General and Revenue Secretariat

the 194

Proceedings of the Government of
His Highness the Maharaja of Mysore.

Date of issue 4.12.46 194

Read— Memo No 2604/E dated

Signed by R. M. R.

18.10.1946 from the Chief Engineer
for Irrigation recommending that
Mr. G. S. Ramaswami A.E. (Mech)
attached to the Sanitary Division
and Mr. M. Ganapathy attached to
the Well Boring Section may be
deputed to undergo a course
of training as Drilling Engineer
and Driller respectively in the
Central Drilling School of the
Central Ground Water Section at
Shanarai (7 miles from Roorkee).

May this be—

- (i) printed?
- (ii) treated as a standing order?
- (iii) published in the Gazette,
English Part?
- (iv) translated?
- (v) placed at the disposal of the press?
- (vi) published in the Gazette,
Kannada Part?

Order thereon—No.

Order thereon No. PW 3526-7. Dated 4.12.46
The Govt. of Madras have
intimated that a Central Drilling

School (C.S.S.) of the Central Ground Water
Section has been opened ^{before the start of the} at Shamcuni

(7 miles from Roorki, U.P.) from 1-8-1946
to impart technical training relating
to the mechanical ~~drilling~~ drilling of
water wells generally. The idea is to train
the prospective drillers in the use of
mechanical boring ~~equipment~~ equipment in the
minimum time. No fee is charged by
the Central Govt. for the training, which
will be ^{for} about 9 months duration; but the
Candidates are required to bear their
living and travelling expenses.

2. The Chief Engineer for Driftation,
who was consulted in the matter, has
recommended that Mr. D. C. Ramaswamy ^{List of Enclosures} A.E. (Tech)
attached to the Sanitary Bureau and Mr M.
Ramapathy, attached to the Well Boring
Section - may be deputed to undergo a
Course of training as Drilling Engineer
and Driller respectively.

3. Govt. are pleased to sanction
the above recommendation of the C.E., Driftation
and holding allowances being paid to them as
per rules of M.S.R.

Copied by

Examined by

20

The ^{Chief} for Driftation
The Comptroller of the Accounts

Secy to Govt.
Driftation

12-11-46

1889 NW 3

Appendix F. G.—1]

SUBJECT Central Training School of the Central Board
Water Section

Section Bot

File No. 28-46

Serial No. 7

Diary No. of letter replied to.....

General and Revenue Secretariat

()
the 194

Date of issue 27.12.46.

Signed by M. K. S. J.

No. NW 3524-3

To.
The Chairman,
Central Ground Water Section
Dept. of Agriculture
New Delhi

Sir,

I am directed to refer to letter No F. 8-26/46 IN dated the 27th Aug 1946 of the Govt of India, Dept of Agriculture, on the above subject, and to state that the Govt of Mysore are glad to accept the facility offered by the Central Govt and ^{are accordingly} ~~are willing~~ to depute Mr. G. D. Ramaswamy B.E (Recd) and Mr. H.

List of enclosures.....

Copied by.....

Examined by.....

Ganapati, attached to the Well being
section to undergo a course of
training ~~for~~^{as} drilling Engineer
and Driller respectively.

2. I am to add that the Chief
Engineer for Irrigation, Mysore, has
been requested to furnish the particulars
~~required~~ required in para 6 of the
letter direct to you.

Shete

Secy to Govt. B
20/9/46
B. W. Shete

Copy W.C. to the Chief Engineer
for Irrigation W.C. to his Memo no.
2604/E dated 18/07/1946.

Encl

The particulars required in
para 6 of the Govt. of India letter
dated the 27th May 1946, a copy of
which is enclosed herewith, may
kindly be furnished direct to the
~~Address mentioned therein~~
Chairman.

12/11/46

Secy to Govt. B
B. W. Shete

Mrs
12/11/46

28-46-11

No. 10-43/46.
GOVERNMENT OF INDIA
Office of the Chairman, Central Ground Water Section.

New Delhi, the 18th Jan. 1947.

From

Rai Bahadur M.C. Bijawat,
Chairman, Central Ground Water Section.

To
The Chief Engineer,
for Irrigation in Mysore,
Bangalore
(Mysore State)

P. W. SECRETARIAT
3786.

D. 27/1/47

Sub:- Training in Mechanical Drilling at the Central Drilling School.

Sir,

With reference to your letter No. 4593-95/E., dated 23.12.46, I have the honour to inform you that detailed particulars in respect of your candidates (Mr. G.D. Ramaswamy and Mr. Ganapathy) have not yet been received, as promised in your letter under reference.

2. As the particulars of the States' nominees for admission to the third course of instructions will be accepted only upto the 10th February 1947, I have to request you to expedite submission of necessary particulars in respect of your nominees, so as to reach this office not later than 10th February 1947.

I have the honour to be,
Sir,
Your most obedient servant,

Sd. M.C. Bijawat.

Chairman,
Central Ground Water Section.

No. SW.10-43/46. dated New Delhi, the 18th Jan. '47.

Copy forwarded to the Secretary to the Government of His Highness the Maharaja of Mysore, P.W.D., with reference to his letter No. PW.3524-5/Est.-28-467, dated the 4.12.46 for information.

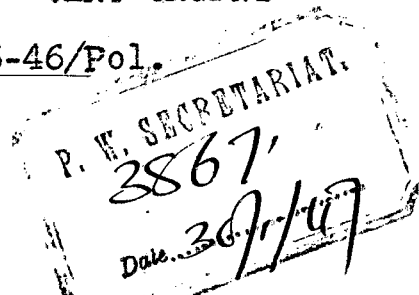
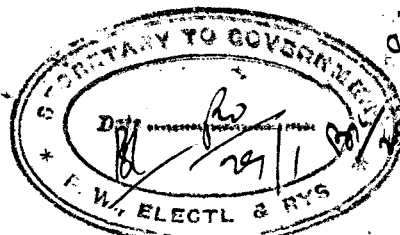
M.C. Bijawat
Chairman, 18/1/47
Central Ground Water Section.

The reply to this communication should be addressed to the Secretary to the Resident in Mysore, Bangalore, by designation and not by name.

24-46-4
VERY URGENT.

RF.436-46/Pol.

FROM



THE SECRETARY TO THE HON'BLE THE RESIDENT IN MYSORE.

To

The Chief Secretary to the Government of
His Highness the Maharaja of Mysore.

Dated Bangalore, the 28th January 1947.

CENTRAL DRILLING SCHOOL OF THE
CENTRAL GROUND WATER SECTION.

10
P.W. Secy
29.1.47
SIR,

I am directed to state that the third course at the Central Drilling School will commence early in March 1947. If the Government of Mysore are desirous of sending any candidates on this course, their requirements of vacancies may kindly be intimated direct to the Chairman, Central Ground Water Section, so as to reach him before the 10th February 1947. The particulars referred to in paragraph 6 of the letter from the Central Government in the Department of Agriculture, No.F.8-26/46-IRN, dated the 27th August 1946, (a copy of which was sent to you with my letter No.RF.436-46/Pol., dated the 25th September 1946) may also be furnished to him at the same time. The number of seats finally allotted to the State will be announced by the Chairman as soon as possible after the 20th February 1947.

2. A copy of the Prospectus and Syllabus for the Central Drilling School is enclosed.

I have the honour to be,
Sir,
Your most obedient servant,

28/1
SECRETARY TO THE RESIDENT.

GOVERNMENT OF INDIA.
AGRICULTURE DEPARTMENT
CENTRAL GROUND WATER SECTION.

Prospectus. for
CENTRAL DRILLING SCHOOL
Dhanauri (Roorkee), U.P.

Accommodation.—Barrack space will be provided together with charpoy, kit-box, table, and chair for each student. A deposit of Rs. 15/- must be paid to the Principal of the School as soon as the pupil takes over the equipment. On return of the equipment on completion of the course the deposit will be refunded. Electric light will be provided free. Table fans, when required, must be hired by trainees themselves.

2 Board.—A contractor provided with cooking facilities will be on the site with separate kitchens for Muslims and Hindus. In addition, there will be a canteen where light meals, tea, cigarettes, etc., will normally be available. Charges for board, which must be arranged between pupils and the contractor, are not expected to exceed Rs. 35/- p. m.

Apart from general supervision in regard to cleanliness, etc., no part will be taken by the School in the actual provision of food, but *bona fide* complaints will normally be investigated by the Principal.

3. Hours of work.—Working hours will normally be as follows:—

Morning period ...	...	...	07-00 to 11-00
Mid-day meal and rest	...	...	11-00 to 12-30
Afternoon period ...	...	...	12-30 to 16-30

In special cases, such as “fishing” tool practice or completion of wells, etc., pupils may be required to work overtime.

Saturdays ...	—	...	07-00 to 12-00
---------------	---	-----	----------------

Chiefly revision and maintenance of machines.
Sunday ... Holiday.

4. Official Holidays.—Gazetted holidays as approved by Government of India will be notified. Where the holidays are communal, pupils of communities not affected may be required to work as usual.

5. Leave.—Leave will not ordinarily be granted to pupils during the course. If leave for periods exceeding 10 days has to be taken for “urgent private affairs” pupils will be required to submit their names for a fresh course. Such pupils will be ineligible to continue on the current course. In such cases any stipend already paid will be deducted from any future stipend payable to such students.

6. Vacancies.—Admissions, stipends and other benefits will be allotted by the Chairman, Central Ground Water Section. Admission will normally be limited to 30 Driller and 4 Mechanical Engineer vacancies for each course.

7. *Discipline*.—Any pupil whose conduct, after having been given due warning, is considered by the Principal to be prejudicial to the maintenance of discipline in the School may be required to leave the School subject to confirmation of the notice by the Chairman, Central Ground Water Section.

8. *Progress*.—Any pupil, whose progress during the course is deemed by the Principal to be inadequate to enable him to pass the proficiency tests, may be given notice of suspension of training, subject to confirmation by the Chairman, Central Ground Water Section.

9. *Medical Attention*.—Every effort will be made to provide medical attention in cases of an urgent nature. Such treatment will however not be free and no guarantee of free medical attendance or free admission to any hospital can be given. The Principal will arrange to secure the best assistance possible in the circumstances.

10. *Clothing*.—Every student must bring with him sufficient clothing for the period of the course. Items shown in Appendix 'A' are compulsory. It is very important that *mosquito nets* be brought.

11. *Families*.—Students will on no account be permitted to bring their families to the School, nor can any accommodation be arranged for them in the vicinity.

12. *Syllabus*.—A detailed syllabus is being issued showing the subjects and operations to be covered in the normal three months' course.

13. *Transport*.—No transport can be provided for students' private visits to Roorkee or elsewhere. A bus service runs past the School between Dhanauri—Roorkee and also to Hardwar.

APPENDIX 'A'

Minimum list of clothing and accessories to be brought by students attending the School :—

- 1 pair good boots, either black or brown, suitable for hard usage.
- 2 pairs heavy socks.
- 2 pairs Overalls or Dungarees—must be in one piece with no coat tails, loose belts, etc., as these are liable to be caught in machinery.
- 1 Mosquito net in good condition.
- 2 pairs *khaki* shorts
- 2 *khaki* shirts.
- 1 waterproof or waterproof cape suitable for work in rainy weather
- 2 bed sheets
- 1 pillow
- 2 blankets or substitute

} to be contained in valise for camping, etc.

If possible—two pairs heavy leather work gloves—horsehide suggested
New Delhi, the 7. 12. 46.

(Sd.) M.C. Bijawat.

Rai Bahadur
Offg. Chairman.

GOVERNMENT OF INDIA
 AGRICULTURE DEPARTMENT
 CENTRAL GROUND WATER SECTION
 SYLLABUS OF TRAINING IN MECHANICAL DRILLING AT THE
 CENTRAL DRILLING SCHOOL
 DHANAURI (ROORKEE) U.P.

N.B.—The syllabus is subject to such modification during the course as experience may necessitate,

1. *Objec'*.—The School is intended to impart technical knowledge relating to the mechanical drilling of water wells generally and will train a certain number of Engineer Drillers, Drillers and Assistant Drillers. The number of vacancies will be announced by advertisement at the beginning of each course.

2. *Engineer Drillers*. The candidates for training as Engineer Drillers should possess the following qualifications:-

- (a) A degree in Engineering (Electrical & Mechanical preferred) from a recognised University or an equivalent diploma from any recognised Engineering Institution.
- (b) They should be mechanically minded with practical experience for at least two years in some large workshop or engineering works employing heavy machinery.
- (c) Physical fitness and good personality-candidates will be required to exert hard manual labour.
- (d) They will be required to attend at the Central Drilling School, Dhanauri for interview and short practical test before selection.
- (e) Before selected candidates can be admitted to the School, they will be required to produce a medical certificate of sound physique and good health from a recognised Medical Practitioner.

Engineer Drillers will receive a 3 months' course of preliminary instruction, both practical and theoretical at the School followed by 6 months' field experience.

If considered necessary by the Principal and confirmed by the Chairman, C.G.W.S., any particular Engineer Driller trainee may be given an extension of at the most 3 months further field training should he not have attained the required standard at the end of his first 9 months' course.

After the satisfactory conclusion of this field training students who have attained the requisite standard of proficiency in the theory, maintenance and operation of the drills and construction of water-wells, will be awarded a certificate of proficiency from the School.

Stipend.—For Engineer Driller trainees who are nominees of the C.G.W.S., a stipend of Rs. 150/- per mensem will be awarded for the whole period of training (including field training) which in no case will exceed 12 months in all.

No guarantee of any employment after completion of the course can be given but it is hoped considerable scope will be available for trained Engineer Drillers.

3. Drillers and Assistant Drillers.—The candidates should possess the following qualifications :—

- (a) Good general intelligence.
- (b) Good general education upto High School Standard
- (c) Mechanically minded preferably with some previous training in a reasonably heavy industry for about a year. Preference will be given to candidates possessing diploma in engineering
- (d) Physical fitness—candidates will be required to exert hard manual labour.

Suitable candidates will be required to appear for an interview before selection for a test course at the School.

The candidates selected at the interview will be required to undergo a two weeks 'test' course at the Central Drilling School Dhanauri. As a result of this test only those students who are found suitable for undertaking training as Drillers or Assistant Drillers will be selected for training either on rotary or percussion drills in the School. The question of fitness for training and selection for either percussion or rotary rigs after the two weeks' test will be decided by Principal, Central Drilling School, subject to confirmation by the Chairman, Central Ground Water Section.

They will, after selection in the test be given three months' course of instruction at the School which will comprise elementary training in maintenance and operation of portable drilling rigs. At the end of the three months' training at the School it will be decided by the Principal subject to approval by the Chairman, C.G.W.S., as to which candidates are suitable for taking the field training as Drillers at Government expense.

Those not found suitable for training as Drillers but only as Assistant Drillers will be given the option of being trained as Assistant Drillers.

These selected trainees will then be required to undertake field training for a further period of six months as Drillers or Assistant Drillers.

After the satisfactory conclusion of this field training, students who have attained the requisite standard of efficiency in the maintenance and operation of drills, and construction of water wells, will be awarded a certificate of proficiency from the School.

Those who in the opinion of the Chairman do not attain the requisite standard of proficiency in the first six months of field training will be required to undergo training for a further maximum period of 6 months. If after a total of 18 months training any candidate is unable to attain the required standard of proficiency he will not be awarded a certificate of proficiency but only a certificate stating what actual experience he has had as well as his conduct during the course.

Stipends.—For Driller and Assistant Driller trainees who are nominees of the C.G.W.S., stipends will be paid as follows:—

- (a) Rs. 50/- per mensem during 'test' period of 2 weeks and during 3 months' period of elementary training at the School.
- (b) Rs. 75/- per mensem for those trainees who are selected for training in the field as Drillers.
- (c) Rs. 50/- per mensem to those trainees who, though not up to the standard required for Driller trainees are suitable for and willing to undergo further training as Assistant Drillers.

No guarantee of any employment after completion of the course can be given but there is a considerable field for employment of trained men, on tubewell operations, under the Central Ground Water Section, Provinces and States and private individuals, and it is hoped that most of the candidates trained at the School will be able to secure suitable employment.

4. *Fees.* : No fee will be charged from the candidates for this training who are nominees of the C.G.W.S., Provinces or States. Nominees of Commercial firms will however be charged a suitable training fee.

5. *Syllabus.*—Instruction at the School will comprise the following:—

I

Preliminary check and listing of component parts prior to assembly. Erection, rigging up and general assembly of portable percussion rigs. Detection of possible faults. Each student will take charge of one complete cycle of erecting and dismantling machines.

II

Complete maintenance of machines including proper care in the use of all grades of fuel and lubricants. Adjustments to brakes, friction clutches, disc clutches and complete maintenance of power plant (Diesel engines) including ordering of spares. Location of faults and their correction. Each student will be called upon to do the actual test and adjustment himself, and not merely to write on paper what should be done.

III

Selection and preparation of drilling sites, preparation of approaches, spoil pits and actual movement of rigs to sites. Power and different types of hauling vehicles,

6

IV

Erection and setting up of drills at a given site and complete preparation for drilling, including the selection of proper tools, material for crabs, wire lines, ropes etc. Each student will be required to take charge of the operation at any stage or throughout the erection period according to his ability to do so.

V

Instruction in the proper selection and care of all types of casings, pipes and strainers generally used including correct description for these in terms of both British and American standard specifications. Measurement and logging of casings to be used in a hole. Each student will be required to prepare a complete string of casing for a hole of specified depth and will collect all necessary tools for this purpose.

VI

Operation of bull reels and spudder with instruction in adjustments of speed and stroke to suit different formations encountered.

VII

- (a) Stringing up a complete set of drilling tools, and instruction in their uses. Students will be required to select a set of tools from the tool dump.
- (b) Measurement of tools, bits, bailers, casings wire ropes, etc.

VIII

Operation of sand reel and uses of different types of bailers and sand pumps.

IX

Operation of casing reel (on 22-W) and substitution for casing reel (on 33-W), stringing of blocks, and use of elevators, spiders and slips, lifting nipples, clamps, etc.

X.

Actual drilling operation; each student to operate the machines himself for drilling different sizes of holes.

XI.

Functions of fishing tools, and their use. Actual fishing operations to be carried out in a test hole by means of casing with a blind end. Each student will fish out all types of lost tools himself. Splicing and care of wire ropes and soft ropes.

XII

- (a) Measurement of depth of hole on both sand and drilling cables.
- (b) Elementary recognition of drilled samples and accurate logging of the depth at which they are encountered. pointing out possibility of errors due to various causes.

XXII.

Students required to take a cautionary course or ..Don is with regard to drilling procedure generally ; instructors will show the right and the wrong way of doing several operations. A complete understanding of the reasons for each precaution will be required of all students.

XXIII.

Students, who have attained the requisite standard of efficiency in the maintenance and operation of drills and the construction of water wells on the above lines, will be awarded a certificate of proficiency from the School.

N.B.—A copy of the Rules regarding accommodation, procurement of rations (on payment), discipline, etc., can be had on application to the Principal of the Central Drilling School, Dhanauri P. O. Roorkee, U.P.

(Sd) M. C. BIJAWAT, RAI BAHADUR

New Delhi, the 7-12-46.

Offg. Chairman.

(c) Recording of all daily static water levels and recovery. Simple tests for quality of water. Methods of testing for water by bailing and rough estimates of yield.

(d) Recognition of caving conditions.

XIII.

Selection and making up of strings of strainers and pipes and their correct positioning in wells. Each student will instal one lenth of strainer at a given depth.

XIV.

Instructors will supervise and instruct, where necessary, their individual crews in the actual running of the pipes and strainers (or slotted tubes) into the hole already drilled by the students. Each student will in turn take direct control of the drilling machine.

XV.

Methods of pulling, jacking and jarring of casings. Arrangement of cribs, and jacks, spiders and slips. Methods of freeing stuck casing. Setting plugs of cement, lead or other type at the junction of strainers, or slotted tubes, with housing pipe for borehole wells.

XVI.

Methods of gravel shrouding for Roscoe Moss (and other) types of wells. Extraction of outer strings of casings. Selection of correct size of gravel and computation of quantity required for a given boring. Sources of correct grade of gravel.

XVII.

Air lift pumping and testing of wells for yield. Use of air compressors and rough calculation as to size required to produce a given yield from a known well with a specified draw-down. Special methods of bailing, surging, back blowing and development of gravel shrouded tubewells. Selected students will be given wells to develop to the best of their ability, in a known area. Recording of pumping data.

XVIII.

Rough estimation of time required to drill a well in known areas with different types of formations. Changes in technique involved.

XIX.

Method of cementing, sealing and grouting where necessary.

XX.

Detailed explanation with practical demonstration of the Roscoe Moss technique of tubewell construction.

XXI.

Preparation of an estimate of equipment required to put down a well in a known area including drilling, fishing tools, miscellaneous stores casings, pipes, strainers, slotted tubes, gravel shrouding and time required for completion. Estimate of actual cost of construction.

Immutate

3786 | 3867

Appendix F. G.—1]

SUBJECT

Central Training School of the Central
Ground Water Section

Section

File No.

Serial No.

Diary No. of letter replied to.....

No.

General and Revenue Secretaries

To.

(
the

)
194

The Chief Engineer, in
Ludhiana, Punjab

Date of issue.....

Sir,

Signed by.....

Not issued

I am directed to
in vite reference to letter
no. S.W. 10-436/46 dated 18.1.1947
from the Chairman, Central
Ground Water Section, New Delhi
to your address on the above
subject and to forward
herewith a copy of Residency
letter no. R.F. 436-46/POL
dated 28.1.1947 along with
its enclosure for information
and necessary further action.

List of enclosures.....

Copied by.....

Examined by.....

I am to request that the
particulars required by Sir
Cairncross, Central Ground Water
Section, may kindly be furnished
immediately, ~~and~~ direct
to him, under intimation to this
Office

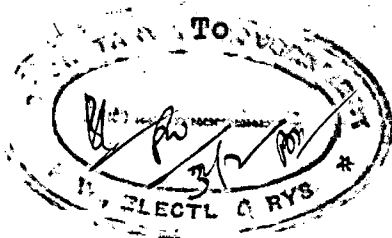
Yrs etc

Recd to Govt ^{31/1/42}
PA Sept

B
31/1/47
Gmt
(21/1/47)

No.....

Office of the Chief Engineer for
Irrigation in Mysore,
Dated Bangalore, 29th January 1947.



The Chairman,
Central Ground Water Section,
Department of Agriculture,
New Delhi.

P. W. Section
3950,
Date 4/2/47

Sir,

Central Drilling School of the Central Ground Water Section

With reference to your letter No.S.W.10-43/46 dated
18-1-1947, I have the honour to furnish the particulars in
respect of Messrs. G.D.Ramaswamy and M.Ganapathy.

2. I request you to be so good as to intimate the date from
which the next course of the School commences, with a view to
instruct the candidates selected to be ⁱⁿ readiness.

3. The Sanitary Engineer, Bureau of Sanitary Engineering
has been instructed to furnish the physical fitness certificate
in respect of Mr.Ganapathy direct to you, immediate after his
return from Calcutta.

I have etc.,

Sd.M.Narasimhaiya,

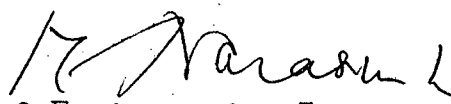
GCS/28th.

CHIEF ENGINEER FOR IRRIGATION

No. 5190-92/1e

Dated 1-2-47

Copy of the above is forwarded, with compliments, to the
Secretary to Government, Public Works Department, Bangalore,
for information, with reference to his Memo No.P.W.3524-5pE,
28-46-7 dated 4-12-1946.


Chief Engineer for Irrigation.

Particulars.

- | | <u>Mr. G. D. Ramaswamy.</u> | <u>Mr. M. Ganapathy.</u> |
|--|--|--|
| (a) Date of birth. | 21st March 1920. | 11-10-1897 |
| (b) Details of general education and employment since leaving School. | B.E. in Mechanical completing Intermediate Science. Employed as Surveyor in Mysore P.W. Now lent to College of Engineering as Lecturer in Mechanical Engineering. | Studied upto Lower Secondary and practical training in K.G.F. |
| (c) Details of any Engineering qualifications, Mechanical experience etc. | Graduate in Mechanical Engineering of the University of Mysore. Underwent practical training at Government Central Industrial Workshop and South Indian Railway Workshop at Golden Rock, Trichinopoly. Working in Mysore P.W.D. from December 1944 and in Water Supply Dn and Sanitary Bureau. | He has 17 years experience in Well boring operations in Calyxite drilling and musto plant. |
| (d) A certificate of physical Fitness from a qualified Doctor. | ertificate enclosed. | Nil. |
| (e) Any other information which the Provincial State Government may consider relevent for the purpose. | | Nil. |

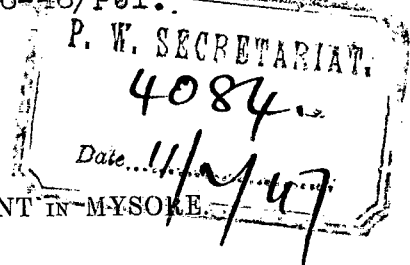
GCS/29th.


CHIEF ENGINEER FOR IRRIGATION.


Immediate

The reply to this communication should be addressed to the Secretary to the Resident in Mysore, Bangalore, by designation and not by name.

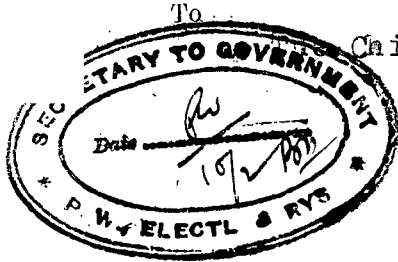
No. RF. 436-46/Pol.



FROM

THE SECRETARY

TO THE HON'BLE THE RESIDENT IN-MYSORE.



To

Chief Secretary to the Government of
His Highness the Maharaja of Mysore,
Bangalore.

Dated Bangalore, the 8th feby. 1947

Central Drilling School of the Central Ground
Water Section.

SIR,

I am directed to refer to my letter No. RF. 436-46/
Pol, dated the 28th January 1947, and to state that
the last date for the receipt of applications for the
third course at the Central Drilling School has been
extended upto the 17th February 1947.

I have the honour to be,
Sir,
Your most obedient servant,

M. S. S. S. S.
SECRETARY TO THE RESIDENT.

L8
P.W. Secy
107CS
8/2

1/2
Recd by me
13/2

7084
Pw
Immediate

Appendix F. G.—1]

SUBJECT.....

Central Drilling School of the Central Ground
Water Department

Diary No. of letter replied to.....

Section ESF
File No. 2446
Serial No. 6

General and Revenue Secretariat

()
the 194 .

No.

Pw 5205

To.

The Chief Engineer to Sindh
Bangalore

Date of issue.....

14-2-47

Sir,

Signed by.....

R. B. S. N.

With reference to
Correspondence ending with your
Memo No 5790-92/E dated 1-2-1947
On the above subject, I am directed
to state that last date for
receiving applications for the
Third course at the Central
Drilling School has been extended
up to 17-2-1947.

List of enclosures.....

Copied by.....

Shree

Examined by.....

Pw
13-2-47
Secy to Govt
Pw Dept

13-2-47

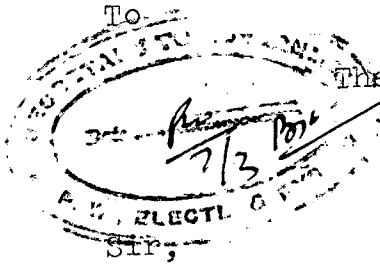
13/2/47

Est 24-46-9

No. 6218/E

Office of the Chief Engineer for
Irrigation in Mysore,
Dated Bangalore, the 4th March 1947.

95-3-1967



To
The Secretary to Government,
Public Works Department,
Bangalore.

P. W. SECRETARIAL.
4648

Date... 8/3/47

Sir,

Central Drilling School of the Central Ground Water Section

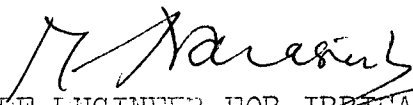
HPS
2.3.47

With reference to your letter No.P.W.5205/Est. 24-46-6
dated 14-2-1947, on the above subject, I have the honour to
state that the Deputy Director Administration and Stores has
intimated in his letter No.F.18-6/47-5-11 dated nil February
1947 that the exact date of commencement of the course would
be communicated in due course.

I have the honour to be,

Sir,

Your most obedient servant,


CHIEF ENGINEER FOR IRRIGATION.

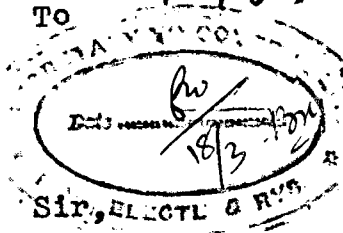
GCS/4th.

Est 24-46-12

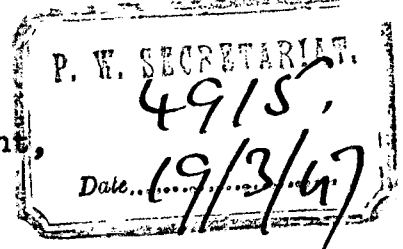
Office of the Chief Engineer for
Irrigation in Mysore,
Dated Bangalore, 17th March 1947.

No. 6438/E.

To



The Secretary to Government,
Public Works Department,
Bangalore.



Central Drilling School of the Central Ground Water Section
Deputation for Training.

Adverting to Government Order No.P.W.3526-7/Est. 28-46-6 dated 4-12-1946, sanctioning the deputation of Messrs. G.D.Ramaswamy and M.Ganapathi attached to the Well Boring Section to undergo training at Dhanauri, I have the honour to enclose herewith, for the information of Government, a copy of Telegram dated 4-3-1947 received from the Chairman, Central Ground Water Section, New Delhi intimating that Mr.Ganapathi has been selected for training and that he should be instructed to be ready to join the School at short notice.

2. To enable Mr.Ganapathi to join the Training School at Dhanauri, and to equip himself for undergoing the training with all the necessary articles enumerated in the Prospectus for the Drilling School, the Sanitary Engineer has recommended that a lumpsum advance of Rs.500/- may be granted.

3. As it is quite essential that Mr.Ganapathi should join the Training Centre and settle down without any difficulty, I request that sanction of Government may kindly be obtained and communicated to grant an advance of Rs.500/- to Mr.M.Ganapathi to cover his train-fare for forward journey to Dhanauri, equipment and halting expenses, subject to adjustment out of his T.A.Bill.

4. As Mr.Ganapathi will have to keep himself ready to leave the station at short notice, I request the favour of very early sanction of Government to the grant of the advance referred to above.

I have the honour to be,
Sir,
Your most obedient servant,

CHIEF ENGINEER FOR IRRIGATION.

CS/17th.

Telegram dated 4th March 1947 from X TL New Delhi
4 STE. 37 to the Chief Engineer for Irrigation, Mysore
State, Bangalore.

" YOUR LETTER 5190-92-7 OF FEBRUARY FIRST
STOP GANAPATHY SELECTED INSTRUCT HIM TO
BE-READY TO JOIN SCHOOL SHORT NOTICE
STOP RAMASWAMYS CASE STILL UNDER CONSI-
DERATION STOP LETTER FOLLOWS=

DEGWATER.

"COPY"

S. C. Ramaswamy *Recd*
✓ CHIEF ENGINEER FOR IRRIGATION.
12

12/3/47

G. R. S. App. F VI—G. 2]

SUBJECT.....

*Central Engineering School of the Central
Ground Water Section*

Diary No. of letter replied to

General and Revenue Secretariat

the

19

Date of issue..... 10-4-47 19

Signed by..... *M. H. P. S.*

May this be—

- (i) printed
- (ii) treated as a standi.....
- (iii) published in the Gazette,
English Part?
- (iv) translated?
- (v) placed at the disposal of the Press?
- (vi) published in the Gazette,
Kannada Part?

Section *Est*

File No. *28-46*

Serial No. *19*

Proceedings of the Government of
His Highness the Maharaja of Mysore.

Read—

G.O. no PW 3526-7/Est

28.46-6 dated 12-12-1946

*from sanctioning the proposal
depute
to Messrs. G. S. Ramaswami*

attached to the Sanitary Bureau and

M. Ganapathy attached to the

*Well Boring Section. ~~Order~~ Order
thereon.—No.*

to undergo training as Civil

Engineer and ~~sanitary~~ sanitary

respectively at the Central

Drilling School at Shamauri,

near Lucknow in U.P.

2. Letter no 6438/E dated

17-3-1947 from the Chief Engineer

for Dringatin requesting sanction
to the grant of an advance of
Rs 500/- to Mr. M. Ganapathy to
cover his travelling expenses for his
forward journey to Shencouri,
equipment and saltine expenses.

Order No. 24 5946-5/EST. 63-45-19
Dated 10-4-47

Sanction is accorded to the
grant of an advance of Rs. 500/- admissible
under the rules and in addition ^{an advance of} one
month's pay ~~or~~ Rs 150/- ^{whichever}
ever is less for equipment, the amount
being subsequently adjusted as per
rules.

May 5 47

Secy to Govt.

List of Enclosures

PW sept

10

The CF for Dringatin

The Comptroller to Govt.

The Auditor PW sept

Copy to Secy

Copied by

Examined by

B
2/4/47

PROCEEDINGS OF THE GOVERNMENT OF HIS HIGHNESS
THE MAHARAJA OF MYSORE

Public Works Department

READ -

G.O.No.P.W.3526-7/^{1st} 28-46-6 dated 4-12-1946
sanctioning the proposal to Messrs.G.D.Ramaswamy attached
to the Sanitary Bureau and M.Ganapathy attached to the
Well Boring section ~~may~~ ^{are} sent to undergo training as
Drilling Engineer and Driller respectively at the Central
Drilling School at Dhanauri, near Roorkee in U.P.

2. Letter No.6438/S dated 17-3-1947 from the Chief
Engineer for Irrigation requesting sanction to the grant
of an advance of Rs.500/- to Mr.M.Ganapathy to cover his
travelling expenses for his forward journey to Dhanauri,
equipment and halting expenses.

Order thereon No.P.W.4546-8/^{EST. 28-46-1} Dated, Bangalore, 10-4-1947

Sanction is accorded to the grant of an advance of
... admissible under the rules and in addition an advance
of one month's pay or Rs.150/- whichever is less for equip-
ment, the amount being subsequently adjusted as per rules.

H. P. Ramaswamy
Secretary to Government, 9.4.47
Public Works Department.

To

The Chief Engineer for Irrigation
The Comptroller to Government | Through the M.
The Auditor, P.W. Department | Sectt.

15.5.47.